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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,208	12/28/2004	Risto Saarinen	6009-4734	9825
27123 MORGAN & F	7590 06/15/2007 FINNEGAN L.I. P		EXAMINER	
MORGAN & FINNEGAN, L.L.P. 3 WORLD FINANCIAL CENTER			TRAN, LEN	
NEW YORK, NY 10281-2101			ART UNIT	PAPER NUMBER
		<u> </u>	1725	
			MAIL DATE	DELIVERY MODE
			06/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/520,208	SAARINEN ET AL.				
		Examiner	Art Unit				
	•	Len Tran	1725				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period fe	• •						
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES OF THE MAILING DA	ATE OF THIS COMM 36(a). In no event, however, n vill apply and will expire SIX (6 , cause the application to beco	UNICATION. lay a reply be timely filed MONTHS from the mailing date of this communication. me ABANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 28 De	ecember 2004.					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.						
3) 🗌	Since this application is in condition for allowar	•	•				
	closed in accordance with the practice under E	Ex parte Quayle, 1935	C.D. 11, 453 O.G. 213.				
Disposit	ion of Claims		·				
4)🖂	Claim(s) 1-18 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
·	5) Claim(s) is/are allowed.						
	Claim(s) <u>1-18</u> is/are rejected.						
) Claim(s) is/are objected to.						
ا_(٥	Claim(s) are subject to restriction and/o	r election requiremen	.				
Applicat	ion Papers						
9)☐ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>28 December 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
111	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
וויי ו	The dath of declaration is objected to by the	tairiiller. Note the atta	ched Office Action of form F 10-132.				
Priority	under 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign	priority under 35 U.S	.C. § 119(a)-(d) or (f).				
a) ☑ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	nt(s)						
_	ce of References Cited (PTO-892)	4) Interv	riew Summary (PTO-413)				
2) Notice	ce of Draftsperson's Patent Drawing Review (PTO-948)	Pape	r No(s)/Mail Date e of Informal Patent Application				
	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date <u>12/28/04</u> .	6) Othe					

Application/Control Number: 10/520,208 Page 2

Art Unit: 1725

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-18 rejected under 35 U.S.C. 103(a) as being unpatentable over Cordier et al (US 4,437,651).

Cordier et al disclose a method for manufacturing a cooling element to be used in a furnace, the cooling element comprising a housing, in which there forms a channel for circulating fluid, a lining element (12) made of fireproof material. The housing and lining element including a mean for connecting them together (grooves 10 and 11). The lining element can move in vertical direction with respect to the housing (figure 1). The lining element arranging a bracket-like edge part that fits in the groove provided in the housing. The groove is arranged in the housing from the groove bottom towards the surface of the housing. The groove is positioned in the vertical position (figures).

Cordier et al fails to teach the housing is made of copper and the dimensions of the groove.

Art Unit: 1725

However, Cordier et al discloses the housing is made of iron, in which iron is a highly conductive material. Therefore, substituting iron with copper would have been obvious to an ordinary skill in the art, since both materials are highly conductive and choosing one over the other would have been merely a design choice.

Furthermore, the dimensions to the groove would have been obvious to an ordinary skill in the art, since this depends on the size of the liner to place therein. Therefore, the size of the groove is dependent to the type of liners.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Len Tran whose telephone number is (571) 272-1184. The examiner can normally be reached on M-F, 8:30 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jonathan Johnson can be reached on 571-272-1177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/520,208 Page 4

Art Unit: 1725

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Len Tran
Primary Examiner
Art Unit 1725

June 9, 2007